

SENSOR FORMED ON SILICON ON INSULATOR  
STRUCTURE AND HAVING REDUCED POWER UP DRIFT

ABSTRACT

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A semiconductor structure includes an upper and a lower layer of semiconductor material separated by a layer of insulation material. Resistors formed in the upper layer are connected into a Wheatstone bridge arrangement having an output. A first voltage provides power to the bridge. A second voltage connected to the lower layer of  
10 semiconductor material has a value selected to reduce the drift of the output following power up of the sensor.

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